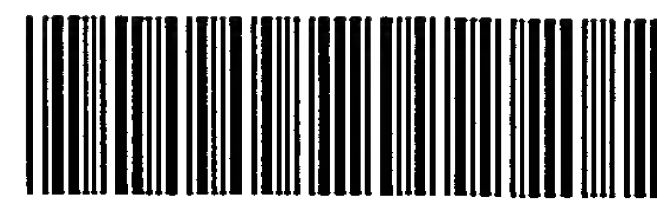


## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/975, 8/3A  
Source: IFW/C  
Date Processed by STIC: 6/7/05

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 06/07/2005

PATENT APPLICATION: US/09/975,813A

TIME: 09:02:01

Input Set : A:\DM6907.ST25.txt

Output Set: N:\CRF4\06072005\I975813A.raw

3 &lt;110&gt; APPLICANT: Miller, Jeffrey A.

5 <120> TITLE OF INVENTION: ASSAYS AND PEPTIDE SUBSTRATE FOR DETERMINING AGGRECAN  
DEGRADING

6 METALLO PROTEASE ACTIVITY

8 &lt;130&gt; FILE REFERENCE: DM6907A

10 &lt;140&gt; CURRENT APPLICATION NUMBER: 09/975,813A

C--&gt; 11 &lt;141&gt; CURRENT FILING DATE: 2001-10-12

13 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/053,850

14 &lt;151&gt; PRIOR FILING DATE: 1997-07-25

16 &lt;160&gt; NUMBER OF SEQ ID NOS: 61

18 &lt;170&gt; SOFTWARE: PatentIn version 3.2

20 &lt;210&gt; SEQ ID NO: 1

21 &lt;211&gt; LENGTH: 40

22 &lt;212&gt; TYPE: PRT

23 &lt;213&gt; ORGANISM: Homo Sapiens

25 &lt;400&gt; SEQUENCE: 1

27 Gln Thr Val Thr Trp Pro Asp Met Glu Leu Pro Leu Pro Arg Asn Ile

28 1 5 10 15

31 Thr Glu Gly Glu Ala Arg Gly Ser Val Ile Leu Thr Val Lys Pro Ile

32 20 25 30

35 Phe Glu Val Ser Pro Ser Pro Leu

36 35 40

39 &lt;210&gt; SEQ ID NO: 2

40 &lt;211&gt; LENGTH: 41

41 &lt;212&gt; TYPE: PRT

42 &lt;213&gt; ORGANISM: Bovine

44 &lt;400&gt; SEQUENCE: 2

46 Gln Thr Val Thr Trp Pro Asp Val Glu Leu Pro Leu Pro Arg Asn Ile

47 1 5 10 15

50 Thr Glu Gly Glu Ala Arg Gly Ser Val Ile Leu Thr Ala Lys Pro Asp

51 20 25 30

54 Phe Glu Val Ser Pro Thr Ala Pro Glu

55 35 40

58 &lt;210&gt; SEQ ID NO: 3

59 &lt;211&gt; LENGTH: 40

60 &lt;212&gt; TYPE: PRT

61 &lt;213&gt; ORGANISM: Homo Sapiens

63 &lt;400&gt; SEQUENCE: 3

65 Ile Thr Phe Val Asp Thr Ser Leu Val Glu Val Thr Pro Thr Thr Phe

66 1 5 10 15

69 Lys Glu Glu Glu Gly Leu Gly Ser Val Glu Leu Ser Gly Leu Pro Ser

70 20 25 30

73 Gly Glu Leu Gly Val Ser Gly Thr

74 35 40

## RAW SEQUENCE LISTING

DATE: 06/07/2005

PATENT APPLICATION: US/09/975,813A

TIME: 09:02:01

Input Set : A:\DM6907.ST25.txt

Output Set: N:\CRF4\06072005\I975813A.raw

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77 <210> SEQ ID NO: 4
78 <211> LENGTH: 41
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial
82 <220> FEATURE:
83 <223> OTHER INFORMATION: synthetic
86 <220> FEATURE:
87 <221> NAME/KEY: MISC_FEATURE
88 <222> LOCATION: (41)..(41)
89 <223> OTHER INFORMATION: biotinylated lysine residue
91 <400> SEQUENCE: 4
93 Gln Thr Val Thr Trp Pro Asp Met Glu Leu Pro Leu Pro Arg Asn Ile
94 1 5 10 15
97 Thr Glu Gly Glu Ala Arg Gly Ser Val Ile Leu Thr Val Lys Pro Ile
98 20 25 30
101 Phe Glu Val Ser Pro Ser Pro Leu Lys
102 35 40
105 <210> SEQ ID NO: 5
106 <211> LENGTH: 21
107 <212> TYPE: PRT
108 <213> ORGANISM: Artificial
110 <220> FEATURE:
111 <223> OTHER INFORMATION: synthetic
114 <220> FEATURE:
115 <221> NAME/KEY: MISC_FEATURE
116 <222> LOCATION: (21)..(21)
117 <223> OTHER INFORMATION: biotinylated lysine residue
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121 Ala Arg Gly Ser Val Ile Leu Thr Val Lys Pro Ile Phe Glu Val Ser
122 1 5 10 15
125 Pro Ser Pro Leu Lys
126 20
129 <210> SEQ ID NO: 6
130 <211> LENGTH: 21
131 <212> TYPE: PRT
132 <213> ORGANISM: Artificial
134 <220> FEATURE:
135 <223> OTHER INFORMATION: synthetic
138 <220> FEATURE:
139 <221> NAME/KEY: MISC_FEATURE
140 <222> LOCATION: (1)..(1)
141 <223> OTHER INFORMATION: biotinylated lysine residue
143 <400> SEQUENCE: 6
145 Lys Gln Thr Val Thr Trp Pro Asp Met Glu Leu Pro Leu Pro Arg Asn
146 1 5 10 15
149 Ile Thr Glu Gly Glu
150 20
153 <210> SEQ ID NO: 7
154 <211> LENGTH: 30

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## RAW SEQUENCE LISTING

DATE: 06/07/2005

PATENT APPLICATION: US/09/975,813A

TIME: 09:02:01

Input Set : A:\DM6907.ST25.txt

Output Set: N:\CRF4\06072005\I975813A.raw

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155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial
158 <220> FEATURE:
159 <223> OTHER INFORMATION: synthetic
162 <220> FEATURE:
163 <221> NAME/KEY: MISC_FEATURE
164 <222> LOCATION: (30)..(30)
165 <223> OTHER INFORMATION: biotinylated lysine residue
167 <400> SEQUENCE: 7
169 Gln Thr Val Thr Trp Pro Asp Met Glu Leu Pro Leu Pro Arg Asn Ile
170 1          5          10          15
173 Thr Glu Gly Gln Ala Arg Gly Ser Val Ile Leu Thr Val Lys
174          20          25          30
177 <210> SEQ ID NO: 8
178 <211> LENGTH: 6
179 <212> TYPE: PRT
180 <213> ORGANISM: Homo sapiens
182 <400> SEQUENCE: 8
184 Asn Ile Thr Glu Gly Glu
185 1          5
188 <210> SEQ ID NO: 9
189 <211> LENGTH: 8
190 <212> TYPE: PRT
191 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 9
195 Ala Arg Gly Ser Val Ile Leu Thr
196 1          5
199 <210> SEQ ID NO: 10
200 <211> LENGTH: 6
201 <212> TYPE: PRT
202 <213> ORGANISM: Bovine
204 <400> SEQUENCE: 10
206 Asn Ile Thr Glu Gly Glu
207 1          5
210 <210> SEQ ID NO: 11
211 <211> LENGTH: 8
212 <212> TYPE: PRT
213 <213> ORGANISM: Bovine
215 <400> SEQUENCE: 11
217 Ala Arg Gly Ser Val Ile Leu Thr
218 1          5
221 <210> SEQ ID NO: 12
222 <211> LENGTH: 6
223 <212> TYPE: PRT
224 <213> ORGANISM: Rat
226 <400> SEQUENCE: 12
228 Asn Ile Thr Glu Gly Glu
229 1          5
232 <210> SEQ ID NO: 13

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/975,813A

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TIME: 09:02:01

Input Set : A:\DM6907.ST25.txt

Output Set: N:\CRF4\06072005\I975813A.raw

233 <211> LENGTH: 8  
234 <212> TYPE: PRT  
235 <213> ORGANISM: Rat  
237 <400> SEQUENCE: 13  
239 Ala Arg Gly Asn Val Ile Leu Thr  
240 1 5  
243 <210> SEQ ID NO: 14  
244 <211> LENGTH: 6  
245 <212> TYPE: PRT  
246 <213> ORGANISM: Mouse  
248 <400> SEQUENCE: 14  
250 Asn Val Thr Glu Gly Glu  
251 1 5  
254 <210> SEQ ID NO: 15  
255 <211> LENGTH: 8  
256 <212> TYPE: PRT  
257 <213> ORGANISM: Mouse  
259 <400> SEQUENCE: 15  
261 Ala Leu Gly Ser Val Ile Leu Thr  
262 1 5  
265 <210> SEQ ID NO: 16  
266 <211> LENGTH: 6  
267 <212> TYPE: PRT  
268 <213> ORGANISM: Pig  
270 <400> SEQUENCE: 16  
272 Asn Ile Thr Glu Gly Glu  
273 1 5  
276 <210> SEQ ID NO: 17  
277 <211> LENGTH: 8  
278 <212> TYPE: PRT  
279 <213> ORGANISM: Pig  
281 <400> SEQUENCE: 17  
283 Ala Arg Gly Thr Val Ile Leu Thr  
284 1 5  
287 <210> SEQ ID NO: 18  
288 <211> LENGTH: 6  
289 <212> TYPE: PRT  
290 <213> ORGANISM: Sheep  
292 <400> SEQUENCE: 18  
294 Asn Ile Thr Glu Gly Glu  
295 1 5  
298 <210> SEQ ID NO: 19  
299 <211> LENGTH: 8  
300 <212> TYPE: PRT  
301 <213> ORGANISM: Sheep  
303 <400> SEQUENCE: 19  
305 Ala Arg Gly Asn Val Ile Leu Thr  
306 1 5  
309 <210> SEQ ID NO: 20

## RAW SEQUENCE LISTING

DATE: 06/07/2005

PATENT APPLICATION: US/09/975,813A

TIME: 09:02:01

Input Set : A:\DM6907.ST25.txt

Output Set: N:\CRF4\06072005\I975813A.raw

310 <211> LENGTH: 6  
311 <212> TYPE: PRT  
312 <213> ORGANISM: Chicken  
314 <400> SEQUENCE: 20  
316 Asn Val Thr Glu Glu Glu  
317 1 5  
320 <210> SEQ ID NO: 21  
321 <211> LENGTH: 5  
322 <212> TYPE: PRT  
323 <213> ORGANISM: Chicken  
325 <400> SEQUENCE: 21  
327 Ala Arg Gly Ser Ile  
328 1 5  
331 <210> SEQ ID NO: 22  
332 <211> LENGTH: 6  
333 <212> TYPE: PRT  
334 <213> ORGANISM: Horse  
336 <400> SEQUENCE: 22  
338 Asn Ile Thr Glu Gly Glu  
339 1 5  
342 <210> SEQ ID NO: 23  
343 <211> LENGTH: 8  
344 <212> TYPE: PRT  
345 <213> ORGANISM: Horse  
347 <400> SEQUENCE: 23  
349 Ala Arg Gly Asn Val Ile Leu Thr  
350 1 5  
353 <210> SEQ ID NO: 24  
354 <211> LENGTH: 8  
355 <212> TYPE: PRT  
356 <213> ORGANISM: Homo Sapiens  
358 <400> SEQUENCE: 24  
360 Ala Ser Thr Ala Ser Glu Leu Glu  
361 1 5  
364 <210> SEQ ID NO: 25  
365 <211> LENGTH: 8  
366 <212> TYPE: PRT  
367 <213> ORGANISM: Homo Sapiens  
369 <400> SEQUENCE: 25  
371 Gly Arg Gly Thr Ile Gly Ile Ser  
372 1 5  
375 <210> SEQ ID NO: 26  
376 <211> LENGTH: 8  
377 <212> TYPE: PRT  
378 <213> ORGANISM: Bovine  
380 <400> SEQUENCE: 26  
382 Ala Thr Thr Ala Gly Glu Leu Glu  
383 1 5  
386 <210> SEQ ID NO: 27

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 06/07/2005  
PATENT APPLICATION: US/09/975,813A      TIME: 09:02:02

Input Set : A:\DM6907.ST25.txt  
Output Set: N:\CRF4\06072005\I975813A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4,5,6,7

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/975,813A

DATE: 06/07/2005

TIME: 09:02:02

Input Set : A:\DM6907.ST25.txt

Output Set: N:\CRF4\06072005\I975813A.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date